

To: Copeland, Michael[Copeland.Michael@epa.gov]
From: Bahrman, Sarah
Sent: Fri 8/7/2015 7:56:43 PM
Subject: FW: FW: USGS flow data on the Animas

Sarah E. Bahrman | Acting Director, Water Program | U.S. Environmental Protection Agency - Region 8

(p) 303.312.6243 | (c) 303.903.8515 | (f) 877.876.9101

From: Ken Bousfield [mailto:kbousfield@utah.gov]
Sent: Friday, August 07, 2015 1:31 PM
To: Bahrman, Sarah
Subject: Fwd: FW: USGS flow data on the Animas

More updates.

Ken B

----- Forwarded message -----

From: Kliphuis, Trais, NMENV <trais.kliphuis@state.nm.us>
Date: Fri, Aug 7, 2015 at 12:28 PM
Subject: FW: USGS flow data on the Animas
To: Ken Bousfield <kbousfield@utah.gov>, Trevor Baggione <Baggione.Trevor@azdeq.gov>

Dilution estimates that may be useful or relevant to you...

From: Hogan, James, NMENV
Sent: Friday, August 07, 2015 11:30 AM
To: Yurdin, Bruce, NMENV; Kliphuis, Trais, NMENV; Majure, Allison, NMENV; Roberts, Kathryn,

NMENV; Hunter, Michelle, NMENV; McQuillan, Dennis, NMENV; Longmire, Patrick, NMENV; shuryn, danielle, NMENV; Tongate, Butch, NMENV; king, jack, NMENV; Flynn, Ryan, NMENV
Subject: USGS flow data on the Animas

Here is what the stream flow looks like going downstream to get a sense of the size of the release and the amount of dilution

Cement Creek – is where the discharge occurred – the flow spiked at ~140 cfs

When it joined the Animas the flow went from ~240 cfs to ~380 cfs

Flow in Durango was ~620 cfs – it is hard to see the pulse at the gage data here

Animas at State Line – 700 cfs – apparently has not made it to the State line yet

Animas at Aztec – 800 cfs

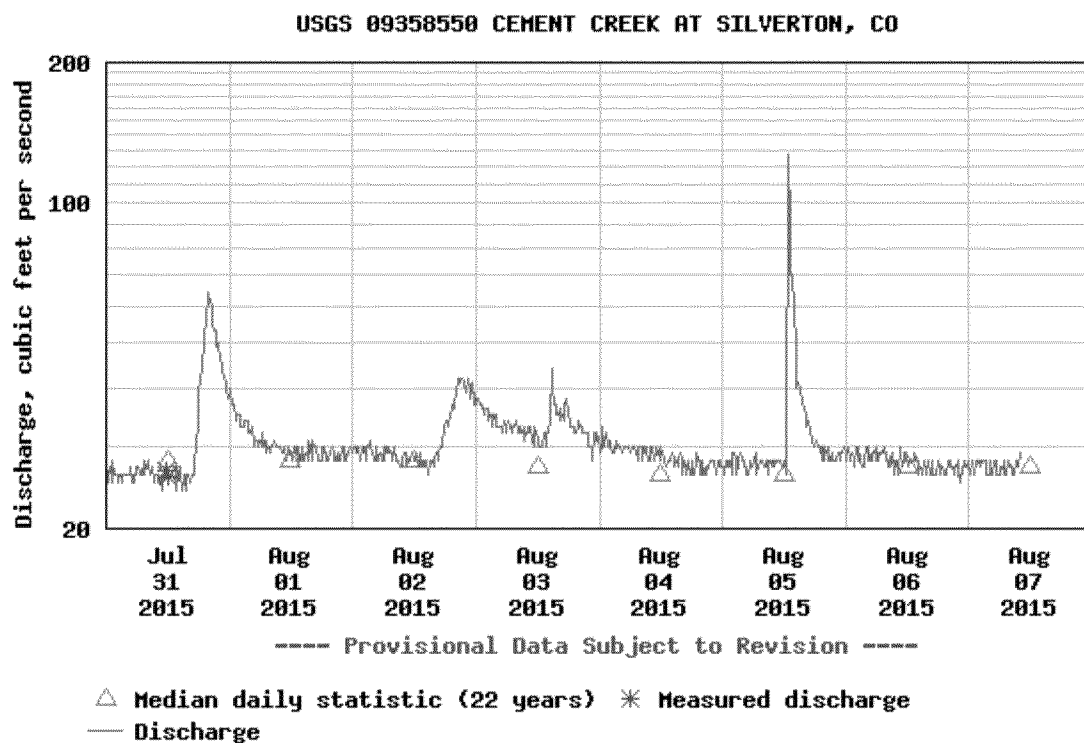
Animas at Farmington – 800 cfs

San Juan below Farmington – 1500 cfs – this is below Animas so the Animas is ~800 cfs then the San Juan is ~700 cfs which is consistent with the 650 cfs release – so right now the San Juan dilution of the Animas is more or less 1:1 right now – with the increase from Navajo releasing 1300 cfs this would move to a 2:1 dilution.

Graphs of the gage data going downstream are provided below.

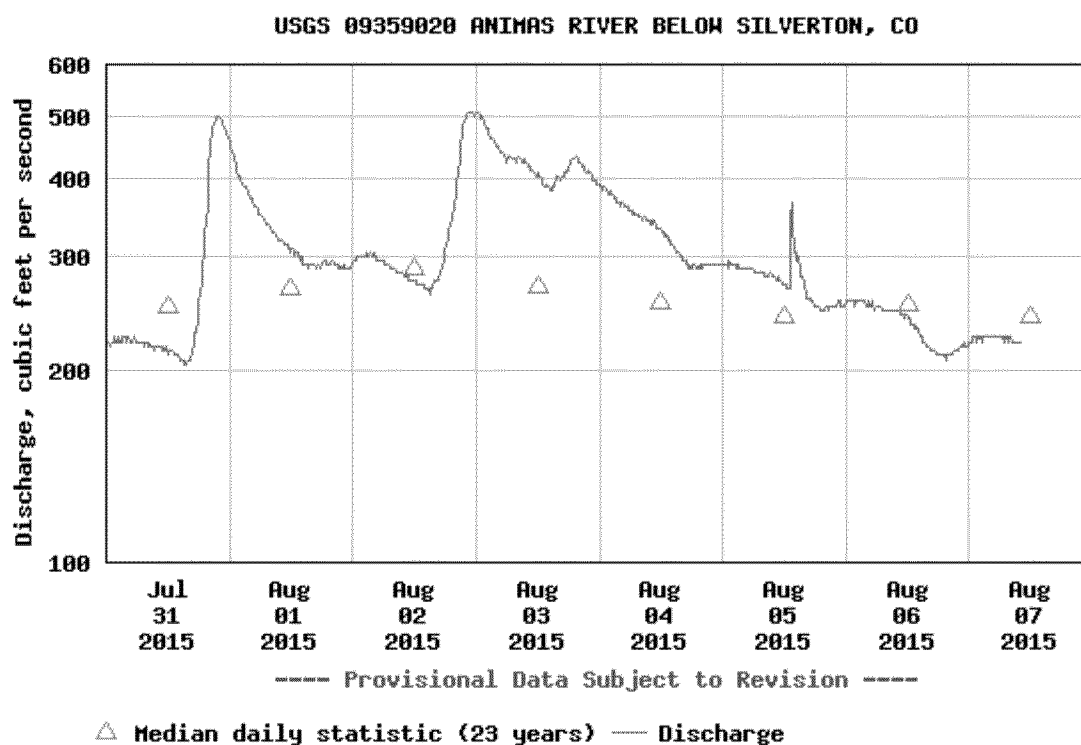
Discharge, cubic feet per second

Most recent instantaneous value: 29 08-07-2015 10:00 MDT



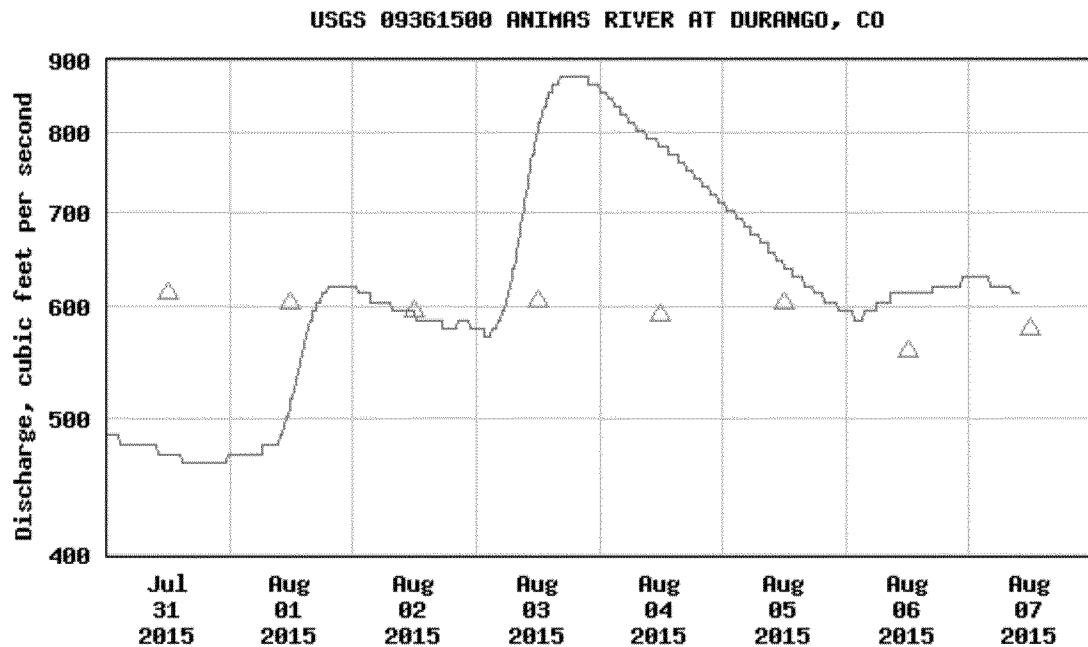
Discharge, cubic feet per second

Most recent instantaneous value: 221 08-07-2015 10:00 MDT



Discharge, cubic feet per second

Most recent instantaneous value: 614 08-07-2015 09:30 MDT



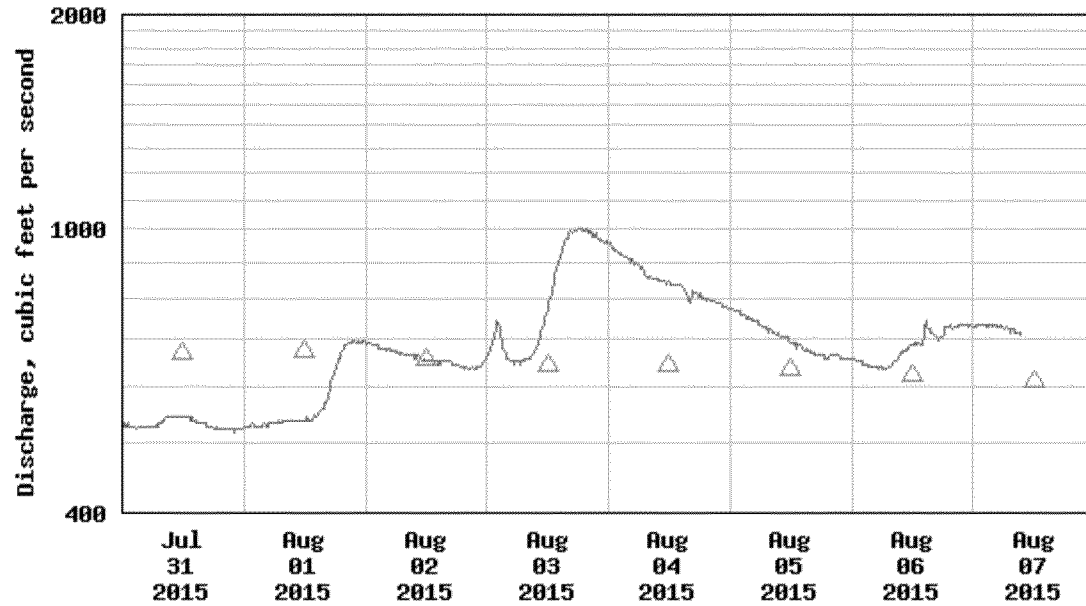
△ Median daily statistic (103 years) — Discharge

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Discharge, cubic feet per second

Most recent instantaneous value: 705 08-07-2015 10:30 MDT

USGS 09363500 ANIHAS RIVER NEAR CEDAR HILL, NM

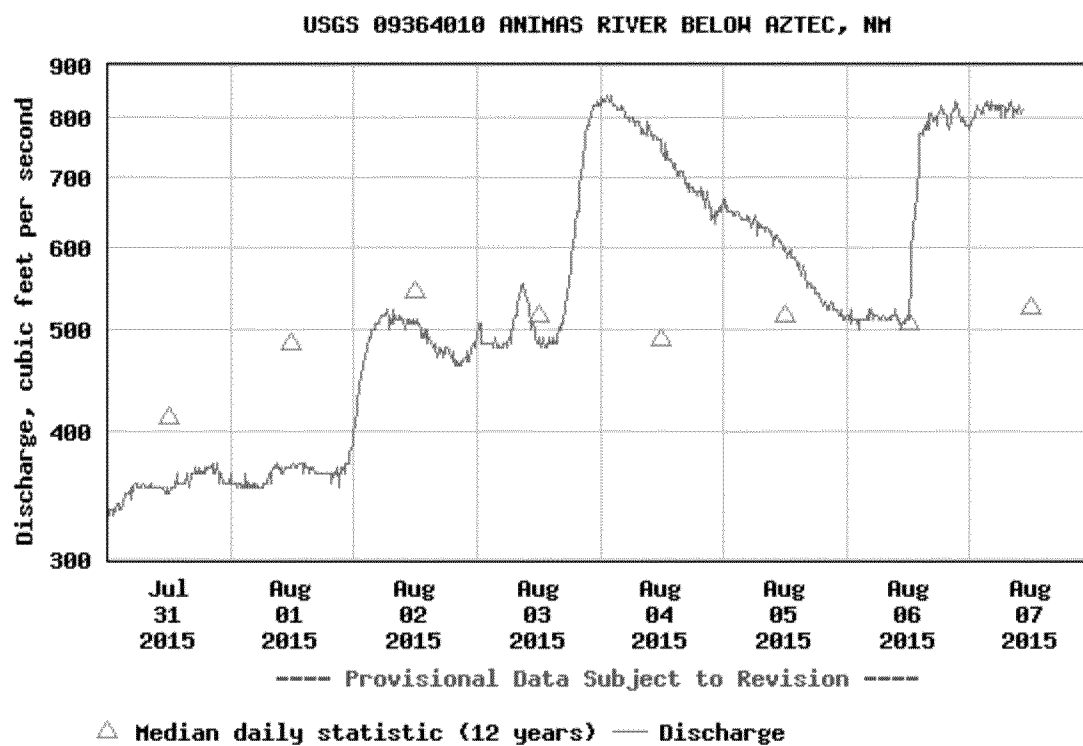


Provisional Data Subject to Revision

△ Median daily statistic (81 years) — Discharge

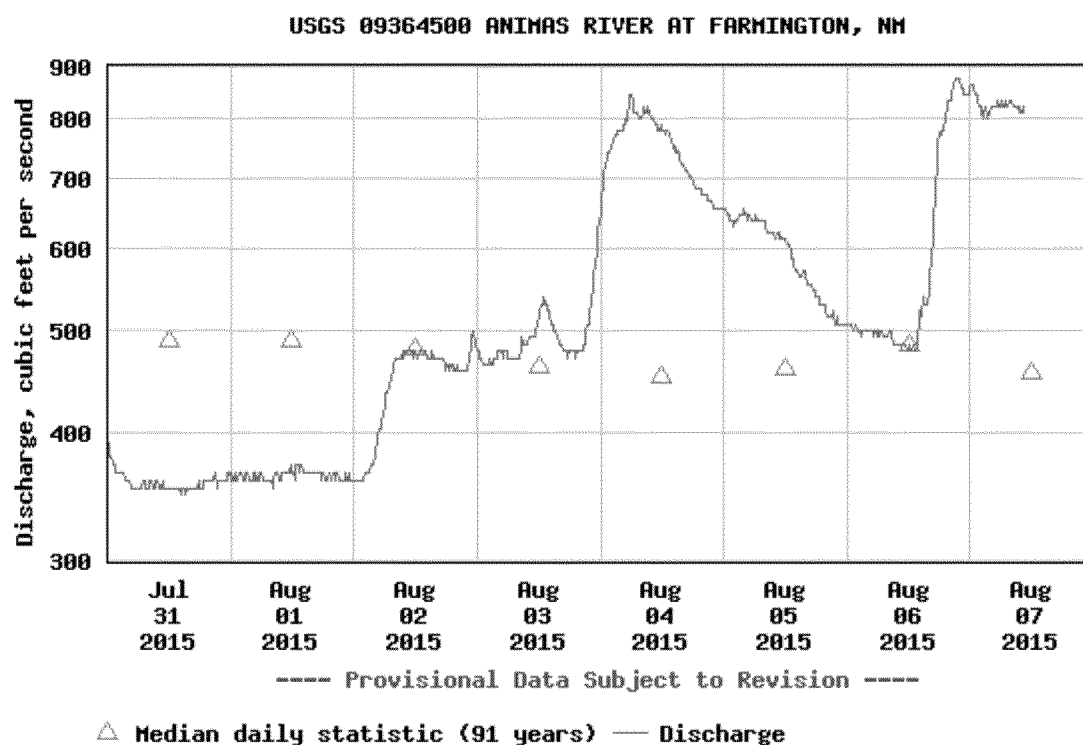
Discharge, cubic feet per second

Most recent instantaneous value: 814 08-07-2015 10:15 MDT



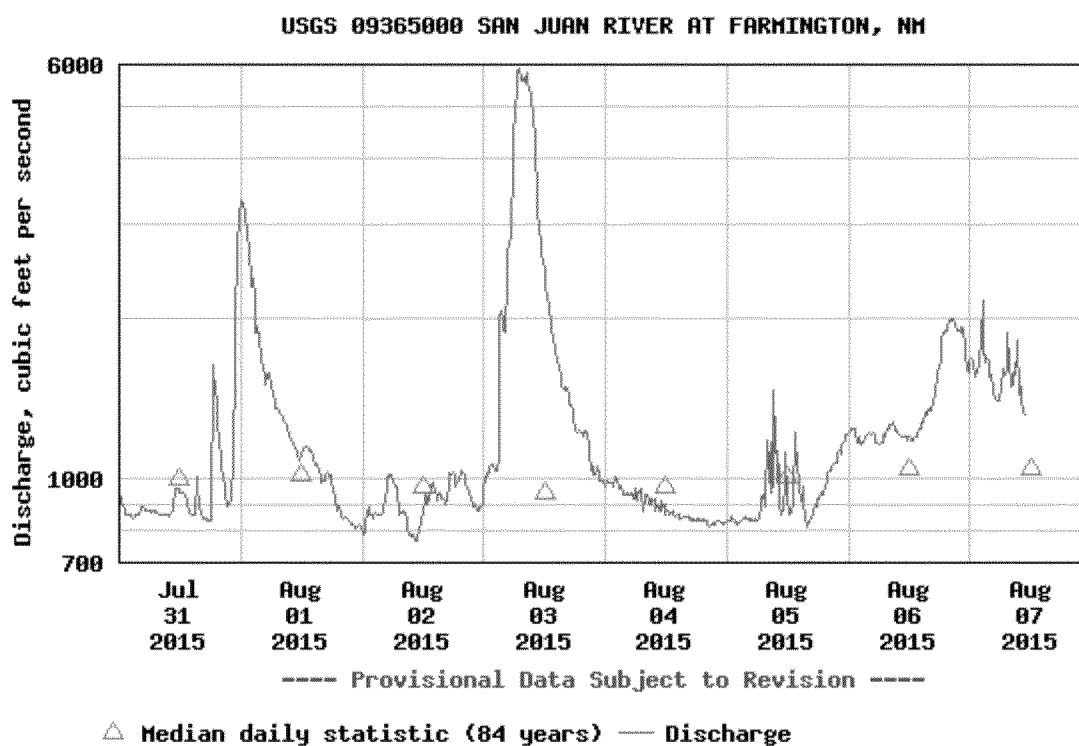
Discharge, cubic feet per second

Most recent instantaneous value: 812 08-07-2015 10:30 MDT



Discharge, cubic feet per second

Most recent instantaneous value: 1,320 08-07-2015 11:00 MDT



James Hogan

Chief, Surface Water Quality Bureau

New Mexico Environment Department

Harold Runnels Building, N2050

1190 South Saint Francis Drive

P.O. Box 5469

Santa Fe, New Mexico 87502-5469

Phone: (505) 476-3671

Fax: (505) 827-0160

james.hogan@state.nm.us

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Ken Bousfield, P.E., Director

Utah Division of Drinking Water

195 North 1950 West

Salt Lake City UT 84114-4830

Phone: 801-536-4207

Fax: 801-536-4211

e-mail: kbousfield@utah.gov